Contents **Volume 257**

CHI-KWONG LI (Williamsburg, Virginia), NAM-KIU TSING (Hong Kong), AND FUZHEN ZHANG (Fort Lauderdale, Florida)
Norm Hull of Vectors and Matrices 1

BISWA N. DATTA (De Kalb, Illinois), SYLVAN ELHAY, AND YITSHAK M. RAM (Adelaide, South Australia)
Orthogonality and Partial Pole Assignment for the Symmetric Definite Quadratic Pencil 29

RON M. ADIN (Ramat-Gan, Israel) AND YAACOV KOPELIOVICH (Irvine, California)
Short Eigenvectors and Multidimensional Theta Functions 49

MING-PENG GONG (Waterloo, Ontario, Canada)
Semigroups Defined by Generalized Schur Functions 65

B. PHILIPPE AND M. SADKANE (Rennes, France)
Computation of the Fundamental Singular Subspace of a Large Matrix 77

RICHARD A. BRUALDI (Madison, Wisconsin), SUK-GEUN HWANG, AND SUNG-SOO PYO (Taegu, Republic of Korea)
Vector Majorization via Positive Definite Matrices 105

RUTH CURTAIN AND MICHAEL GREEN (Groningen, The Netherlands)
Analytic System Problems and J-Lossless Coprime Factorization for Infinite-Dimensional Linear Systems 121

JAMES LAM AND Y. S. HUNG (Hong Kong)
On the Stability of Projections of Balanced Realizations 163

JOSEPH R. SILER (Springfield, Missouri) and RICHARD D. HILL (Pocatello, Idaho)
Matricial Inner Products and Pointed Cones of Hermitian-Preserving Linear Transformations 183

JUN WU (Waterloo, Ontario, Canada)
A Partial Ordering of CS_m Defined by the Generalized Matrix Functions 193

RON AHARONI (Haifa, Israel), MILTON MARITZ (Bloemfontain, South Africa), AND ROY MESHULAM (Haifa, Israel)
Fourier Transform Imitations 201

Table of Contents continues

Table of Contents continued

WALTER D. MORRIS, JR. (Fairfax, Virginia)
Extended P-Pairs 211

C. W. NORMAN (Egham, Surrey, United Kingdom)
On the Jordan Form of a Family of Linear Mappings 225

ARIEH LEV (Tel-Aviv, Israel)
Powers of 1-Cyclic Conjugacy Classes in the Groups $GL_n(F)$ and $SL_n(F)$ 243

L. ELSNER (Bielefeld, Germany)
Bounds for Determinants of Perturbed M-Matrices 283

M. G. NEUBAUER AND A. J. RADCLIFFE (Lincoln, Nebraska)
The Maximum Determinant of $\pm$ 1 Matrices 289

ZVI WIENER (Jerusalem, Israel)
An Interesting Matrix Exponent Formula 307

D. E. STEWART (College Station, Texas)
A Graph-Theoretic Model of Symmetric Givens Operations and Its Implications 311

GEORG HEINIG (Safat, Kuwait)
The Group Inverse of the Transformation $\mathscr{S}(X) = AX - XB$ 321

AUTHOR INDEX 343